

RECEIVED

MAY 08 2001

Sheet 1 of 1

Form PTO-1449		
ATTY DOCKET NO.: 10-98H		SERIAL NO.: 09/723,823
APPLICANT: Holl et al.		GROUP: 1744-1743
TC 1700 FILING DATE: November 28, 2000		

## U.S. PATENT DOCUMENTS

Exmr. Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
CB	5,972,710	10/26/99	Weigl et al.	436	34	
	5,971,158	10/26/99	Yager et al.	209	155	
	5,948,684	09/07/99	Weigl et al.	436	52	
	5,932,100	08/03/99	Yager et al.	210	634	
	5,747,349	05/05/98	van den Engh et al.	436	172	
	5,726,404	03/10/98	Brody	200	81 R	
	08/938,585					09/26/97
CB	08/823,747					03/26/97

## FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation Yes/No

## OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

CB		Alonso et al., (1989), "Time-Dependent Rheological Behaviour of Blood Flow at Low Shear in Narrow Horizontal Tubes," <i>Biorheology</i> 26(2):229-246
EXAMINER <i>Keith B...</i> DATE CONSIDERED <i>1/23/03</i>		
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		

12/20/89



RECEIVED

MAY 08 2001

Sheet 1 of 3

Form PTO-1449			TC 1700	
ATTY DOCKET NO.: 10-98H	SERIAL NO.: 09/723,823	FILING DATE: 11/28/00		
APPLICANT(S): Holl, M.R. et al.		GROUP ART UNIT: 1244 1743		

Originally cited in 09/080,691 (doc#10-98)

## U.S. PATENT DOCUMENTS

Exmr. Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
on	4,726,929	02/23/88	Gropper et al.	422	68	
	4,894,146	01/16/90	Giddings	209	12	
	4,908,112	03/13/90	Pace	204	299 R	
	4,963,498	10/16/90	Hillman et al.	436	69	
	4,983,038	01/08/91	Ohki et al.	356	246	
	5,007,732	04/16/91	Ohki et al.	356	73	
	5,141,651	08/25/92	Giddings	210	748	
	5,240,618	08/31/93	Caldwell et al.	210	748	
	5,250,263	10/05/93	Manz	422	81	
	5,288,463	02/22/94	Chemelli	422	58	
	5,376,252	12/27/94	Ekström et al.	204	299 R	
	5,480,614	01/02/96	Kamahori	422	70	
	5,500,071	03/19/96	Kaltenbach et al.	156	272.8	
	5,585,069	12/17/96	Zanzucchi et al.	422	100	
	5,599,503	02/04/97	Manz et al.	422	82.05	
	5,627,041	05/06/97	Shartle	435	7.24	
	5,637,469	06/10/97	Wilding et al.	435	7.21	
	5,639,423	06/17/97	Northrup et al.	122	50	
	5,674,743	10/07/97	Ulmer	435	287.2	
	5,681,484	10/28/97	Zanzucchi et al.	216	2	
	5,716,852	02/10/98	Yager et al.	436	172	
	5,726,751	03/10/98	Altendorf et al.	356	246	
cs	5,748,827	05/05/98	Holl et al.	385	134	

Kaltin Bys 1/23/03



RECEIVED

MAY 08 2001

Sheet 2 of 3

Form PTO-1449		TC 1700
ATTY DOCKET NO.: 10-98H	SERIAL NO.: 09/723,823	FILING DATE: 11/28/00
APPLICANT(S): Holl, M.R. et al.		GROUP ART UNIT: 1744 1743

Originally cited in 09/080,691 (doc#10-98)

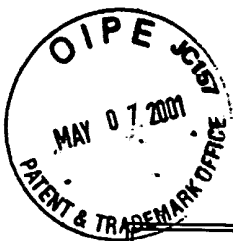
## FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes/No
ca	WO 96/04547	15.02.96	PCT	G01N	27/00	
	WO 96/14934	23.05.96	PCT	B01L	3/00	
	WO 97/02357	23.01.97	PCT	C12P	19/34	
	WO 97/39338	23.10.97	PCT	G01N	21/64	
	0 294 701 B1	02.09.92	EPO	G01N	15/14	
	0 381 501 B1	08.06.94	EPO	C12Q	1/68	
	0 288 029 A2	26.10.88	EP	G01N	21/05	
✓	25 21 236 A1	18.11.76	DT	G01N	15/00	NO
ca	0 645 169 A1	29.03.95	EPO	B01D	21/00	NO

## OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

ca	Elwenspoek, M. et al. (1994) "Towards integrated microliquid handling systems" J. Micromech. Microeng. 4:227-243
	Gravesen, P. et al. (1993) "Microfluidics - a review" J. Micromech. Microeng. 3:168-182
	Kikuchi, Y. et al. (1992) "Optically accessible microchannels formed in a single-crystal silicon substrate for studies of blood rheology" Microvas. Res. 44:226-240
	Manz, A. et al. (1993) "Planar chips technology for miniaturization of separation systems: A developing perspective in chemical monitoring," <u>Advances in Chromatography</u> , Vol 33, Ch. 1, Pp. 1-67
	Miyake, R. et al. (1991) "A development of microsheath flow chamber" Proceedings of the IEEE MicroElectro Mechanical Systems Workshop 265-270.
	Petersen, K.E. (1982) "Silicon as a mechanical material" Proceedings of the IEEE 70(5):420-457
	Shoji, S. and Esashi, M. (1994) "Microflow devices and systems" J. Micromech Microeng. 157-171
ca	Sobek, D. et al. (1993) "A microfabricated flow chamber for optical measurements in fluids" Proceedings of the IEEE MicroElectro Mechanical Systems Workshop 219-224

Kath Bex 1/23/03



RECEIVED

MAY 08 2001

TC 1700

Sheet 3 of 3

Form PTO-1449		
ATTY DOCKET NO.: 10-98H	SERIAL NO.: 09/723,823	FILING DATE: 11/28/00
APPLICANT(S): Holl, M.R. et al.		GROUP ART UNIT: 1744

Originally cited in 09/080,691 (doc#10-98)

CS		Sobek, D. et al. (1994) "Microfabricated fused silica flow chambers for flow cytometry" Proceedings of Solid-State Sensors and Actuators Workshop, Hilton Head, SC
		Verpoorte, E. et al. (1992) "A silicon flow cell for optical detection in miniaturized total chemical analysis systems" Sensors and Actuators 8:66-70
X		Verpoorte, E. M. J. et al. (1994) "Three-dimensional micro flow manifolds for miniaturized chemical analysis systems" J. Micromech. Microeng. 4:246-256
les		Wilding, P. et al. (1994) "Manipulation and flow of biological fluids in straight channels micromachined in silicon" Clin. Chem. 40(1):43-47
EXAMINER <i>Kathryn Bux</i> DATE CONSIDERED <i>1/23/03</i>		
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		

12/20/89



RECEIVED

MAY 08 2001

Form PTO 1449			
ATTY DOCKET NO. 10-98H	SERIAL NO. 09/723,823	TC 1700	FILING DATE 11/28/00
APPLICANT Holl et al.		GROUP <del>1744</del> 1743	

Originally cited in 09/080,691 (doc#10-98)

## U.S. PATENT DOCUMENTS

Exmr. Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
ES		5,707,799	01/13/98	Hansmann et al.	435	6	

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes/No

## OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)


EXAMINER

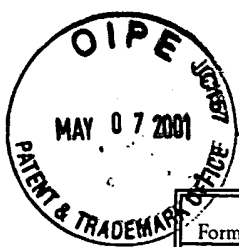
*Keller Bay*

DATE CONSIDERED

1/23/03

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

12/20/89



R. 1700

MAY 08 2001

Form PTO 1449		TC 1700
ATTY DOCKET NO. 10-98H	SERIAL NO. 09/723,823	FILING DATE 11/28/00
APPLICANT Holl et al.		GROUP <del>1744</del> 1743

Originally cited in 09/080,691 (doc#10-98)

## U.S. PATENT DOCUMENTS

Exmr. Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
ES	5,863,502	01/26/99	Southgate et al.	422	58	
	5,919,711	07/06/99	Boyd et al.	436	178	
	5,755,942	05/26/98	Zanzucchi et al.	204	454	
	5,147,607	09/15/92	Mochida	422	57	
	5,744,366	04/28/98	Kricka et al.	436	63	
	5,500,187	03/19/96	Deoms et al.	422	58	

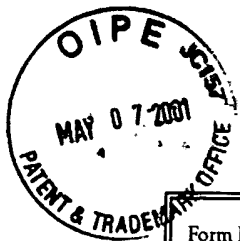
## FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes/No

## OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)


EXAMINER	<i>Kathleen Rr</i>	DATE CONSIDERED	<i>1/23/03</i>
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

12/20/89



RECEIVED

MAY 08 2001

TC 1700

Sheet 1 of 1

Form PTO 1449		
ATTY DOCKET NO. 10-98H	SERIAL NO. 09/723,823	FILING DATE 11/28/00
APPLICANT Holl et al.		GROUP <del>1744</del> 1743

Cited on PCT Search Report

U.S. PATENT DOCUMENTS

Exmr. Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
GB	5,919,711	07/06/99	Boyd et al.	436	178	
	5,863,502	01/26/99	Southgate et al.	422	58	
	5,755,942	05/26/98	Zanzucchi et al.	204	454	
	5,744,366	04/28/98	Kricka et al.	436	63	
	5,726,751	03/10/98	Altendorf et al.	356	246	
↙	5,500,187	03/19/96	Deoms et al.	422	58	
CB	5,147,607	09/15/92	Mochida	422	57	

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation Yes/No

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER <i>Debra Rye</i> DATE CONSIDERED <i>1/23/03</i>			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			